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P A T E N T & T R A D E M A R K O F F I C E

# TRANSMITTAL FORM

Application Serial Number	10/644,582
Filing Date	August 20, 2003
First Named Inventor	Chandra
Group Art Unit	2121
Examiner Name	Not Yet Assigned
Attorney Docket No.	GEN-001
Patent No.	Not applicable
Issue Date	Not applicable

**ENCLOSURES (check all that apply)**

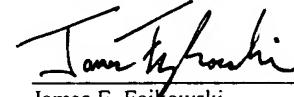
<input type="checkbox"/> Fee Transmittal Form <ul style="list-style-type: none"> <li><input type="checkbox"/> Check Attached</li> <li><input type="checkbox"/> Copy of Fee Transmittal Form</li> </ul>	<input type="checkbox"/> Copy of Notice to File Missing Parts of Application <ul style="list-style-type: none"> <li><input type="checkbox"/> Formal Drawing(s)</li> </ul>	<input type="checkbox"/> Notice of Appeal to Board of Patent Appeals and Interferences <ul style="list-style-type: none"> <li><input type="checkbox"/> Appeal Brief (in triplicate)</li> </ul>
<input type="checkbox"/> Amendment/Response <ul style="list-style-type: none"> <li><input type="checkbox"/> Preliminary</li> <li><input type="checkbox"/> After Final</li> <li><input type="checkbox"/> Affidavits/declaration(s)</li> <li><input type="checkbox"/> Letter to Official Draftsperson including Drawings</li> <li>[Total Sheets _____]</li> </ul>	<input type="checkbox"/> Request For Continued Examination (RCE) Transmittal <ul style="list-style-type: none"> <li><input type="checkbox"/> Power of Attorney (Revocation of Prior Powers)</li> </ul>	<input type="checkbox"/> Status Inquiry <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Return Receipt Postcard</li> </ul>
<input type="checkbox"/> Petition for Extension of Time	<input type="checkbox"/> Terminal Disclaimer <ul style="list-style-type: none"> <li><input type="checkbox"/> Executed Declaration and Power of Attorney for Utility or Design Patent Application</li> </ul>	<input type="checkbox"/> Certificate of First Class Mailing under 37 C.F.R. 1.8 <ul style="list-style-type: none"> <li><input type="checkbox"/> Certificate of Facsimile Transmission under 37 C.F.R. 1.8</li> </ul>
<input checked="" type="checkbox"/> Information Disclosure Statement <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Form PTO-1449</li> <li><input checked="" type="checkbox"/> Copies of IDS Citations</li> </ul>	<input type="checkbox"/> Small Entity Statement <ul style="list-style-type: none"> <li><input type="checkbox"/> CD(s) for large table or computer program</li> </ul>	<input type="checkbox"/> Additional Enclosure(s) (please identify below)
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Amendment After Allowance <ul style="list-style-type: none"> <li><input type="checkbox"/> Request for Certificate of Correction</li> </ul>	
<input type="checkbox"/> Sequence Listing submission <ul style="list-style-type: none"> <li><input type="checkbox"/> Paper Copy/CD</li> <li><input type="checkbox"/> Computer Readable Copy</li> <li><input type="checkbox"/> Statement verifying identity of above</li> </ul>	<input type="checkbox"/> Certificate of Correction (in duplicate)	

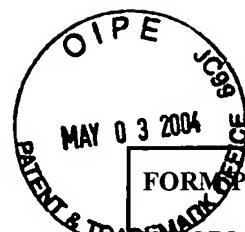
**CORRESPONDENCE ADDRESS****SIGNATURE BLOCK**

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Respectfully submitted,

  
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FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTORNEY DOCKET NO.: GEN-001
				APPLICANT(S): Chandra <i>et al.</i>
				SERIAL NO.: 10/644,582
				FILING DATE: August 20, 2003    GROUP: 2121

## U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	4,935,877	06/19/1990	Koza			
	A2	5,136,686	08/04/1992	Koza			
	A3	5,148,513	09/15/1992	Koza <i>et al.</i>			
	A4	5,343,554	08/30/1994	Koza <i>et al.</i>			
	A5	5,390,282	02/14/1995	Koza <i>et al.</i>			
	A6	5,742,738	04/21/1998	Koza <i>et al.</i>			
	A7	5,867,397	02/02/1999	Koza <i>et al.</i>			
	A8	6,058,385	05/02/2000	Koza <i>et al.</i>			
	A9	6,360,191	03/19/2002	Koza <i>et al.</i>			
	A10	6,424,959	07/23/2002	Bennett, III <i>et al.</i>			
	A11	6,532,453	03/11/2003	Koza <i>et al.</i>			
	A12	6,564,194	05/13/2003	Koza <i>et al.</i>			
	A13	6,594,587	06/15/2003	Askenazi			
	A14	6,665,669	12/16/2003	Han <i>et al.</i>			
	A15	2001/0016822	08/23/2001	Bessette			
	A16	2001/0047353	11/29/2001	Talib <i>et al.</i>			
	A17	2002/0002559	01/03/2002	Busa			
	A18	2002/0049782	04/25/2002	Herzenberg, <i>et al.</i>			

## FOREIGN PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH (Y/N)

EXAMINER

DATE CONSIDERED



FORM TO - 1449 <b>INFORMATION DISCLOSURE STATEMENT</b>		<b>ATTORNEY DOCKET NO.: GEN-001</b> <b>APPLICANT(S): Chandra <i>et al.</i></b> <b>SERIAL NO.: 10/644,582</b> <b>FILING DATE: August 20, 2003 GROUP: 2121</b>
<b>OTHER ART, JOURNAL ARTICLES, ETC.</b>		
<b>EXAM. INIT.</b>	<b>OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)</b>	
	C1	Center for Development of Advanced Computing, "Workshop on Genetic Algorithms in Bioinformatics," <a href="http://www.cdacindia.com/html/ecents/bioinfo/genetic/genidx.asp">http://www.cdacindia.com/html/ecents/bioinfo/genetic/genidx.asp</a> , pp. 1-6 (printed October 22, 2002).
	C2	Jansen, Ronald, "A Bayesian Networks Approach for Predicting Protein-Protein Interactions from Genomic Data," Science, vol. 302, pp. 449-453 (October 17, 2003).
	C3	Karp, Peter D., "The EcoCyc Database," pp. 1-6 (January 25, 2002).
	C4	Karp, Peter D., "Integrated Access to Metabolic and Genomic Data," pp. 1-32 (April 1, 1996).
	C5	Karp, Peter D., "The MetaCyc Database," pp. 1-7 (January 25, 2002).
	C6	Karp, Peter D., "Pathway Databases: A Case Study in Computational Symbolic Theories," Science, vol. 293, pp. 2040-44 (September 14, 2001).
	C7	Karp, Peter D., "The Pathway Tools Software," Bioinformatics, vol. 18 Suppl. 1 2002, pp. S1-S8 (2002).
	C8	Koza, John R., "Reverse Engineering and Automatic Synthesis of Metabolic Pathways From Observed Data Using Genetic Programming," pp. 1-53 (2000).
	C9	Koza, John R., "Reverse Engineering and Automatic Synthesis of Metabolic Pathways From Observed Data Using Genetic Programming," Symposium on Computational Discovery of Communicable Knowledge, pp. 1-63 (March 25, 2001)
	C10	Koza, John R., "Reverse Engineering and Automatic Synthesis of Metabolic Pathways From Observed Data Using Genetic Programming," Biomedical Informatics, pp. 1-12.
	C11	Rindfleisch, Thomas C., "Extracting Molecular Binding Relationships from Biomedical Text," pp. 188-95.
	C12	Stevens, Robert "Building a Reasonable Bioinformatics Ontology Using OIL," Department of Computer Science, University of Manchester, pp. 1-11.
	C13	Yen, John, "A Hybrid Approach to Modeling Metabolic Systems Using Genetic Algorithm and Simplex Method," pp. 1-42.
	C14	Yen, John, "Using Fuzzy Logic and a Hybrid Genetic Algorithm for Metabolic Modeling," pp. 1-6.
	C15	International Search Report for PCT/US2003/030653, mailed February 3, 2004.
<b>EXAMINER</b>		<b>DATE CONSIDERED</b>

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANTS:** Chandra *et al.*      **CONFIRMATION NO.:** 5207  
**SERIAL NO.:** 10/644,582      **GROUP NO.:** 2121  
**FILING DATE:** August 20, 2003      **EXAMINER:** Not yet assigned  
**TITLE:** **SYSTEM, METHOD AND APPARATUS FOR ASSEMBLING AND MINING LIFE SCIENCE DATA**

Mail Stop Amendments  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified patent application. In accordance with the U.S. Patent Office's partial waiver of the requirement under 37 C.F.R. 1.98(a)(2)(i), only copies of the foreign patent documents and non-patent publications are enclosed.

**REMARKS**

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed before the mailing of the first Office action on the merits. It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

Respectfully submitted,

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